

*AMENDMENTS TO THE ABSTRACT*

~~In a~~ A refrigerator ~~having~~has a coolant ~~cooling means~~cooler for cooling a coolant at the entrance of a flow control valve ~~therein~~, when the cooling amount in the coolant ~~cooling means~~cooler is deficient as well as excessive, ~~the COP has decreased~~. The refrigerator includes a compressor ~~(2)~~ for compressing the coolant, a radiator ~~(3)~~ for radiating heat from the coolant, a coolant ~~cooling means (15)~~cooler for cooling the coolant, a flow control valve ~~(4)~~ for regulating the flow volume of the coolant, an evaporator ~~(5)~~ for evaporating the coolant, and a heat-exchange-amount control ~~means (16)~~ for controlling the amount of heat exchanged in the coolant ~~cooling means (15)~~, wherein the cooler. The coolant is circulated through the compressor ~~(2)~~, the radiator ~~(3)~~, the coolant ~~cooling means (15)~~cooler, the flow control valve ~~(4)~~, and the evaporator ~~(5)~~, in that sequence.